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(10) Effect of Complex Agents Upon Growth, and General Conclusions. The index is complete, and the general arrangement of the work admirable in every detail. Despite its enormous practical importance, the theory and systematic study of growth have been generally neglected by the text-books, and in view of this fact the author believes that he has supplied a real want in the literature of biology and of biological economics. He has not neglected the theoretical side, and has especially pointed out the direction in which new and fruitful investigations are to be pursued. Altogether the work is one which will claim the interest even of the general student. μ.

ABHANDLUNGEN DER KAISERLICHEN LEOPOLDINISCH-CAROLINISCHEN DEUTSCHEN
AKADEMIE DER NATURFORSCHER. 70. Band. Mit 21 Tafeln. 71. Band.
Mit 8 Tafeln. Halle, 1898. Buchdruckerei von Ehrhardt Karras in Halle
a. S. Für die Akademie in Commission bei W. Engelmann in Leipzig.

Printed in large folio and averaging 400 pages each, these volumes constitute a really monumental piece of typography, and not too much praise can be bestowed upon the lavish and elegant manner in which they have been illustrated. The monograph of Dr. Frobenius, in the 70th volume, on the figureheads of boats of the Kamerun natives, and that of Dr. Zopf, on the diseases produced by parasitic fungi in lichens, are accompanied by as fine specimens of colored heliograph printing as we have ever seen, and a like commendation is due to the plates of the geometrical monographs on the history of trigonometry, by Braunmühl, in the 71st volume. We append a list of the contents of the two volumes. They consist of solid and original contributions by men of the first rank in the scientific world, and certainly deserve a place in the large libraries of the world.

Contents of Volume 70: (I.) L. Frobenius. Der Kameruner Schiffsschnabel und seine Motive; (II.) W. Zopf. Untersuchungen über die durch parasitische Pilze hervorgerufenen Krankheiten der Flechten (Erste Abhandlung); (III.) H. Hallier. Indonesische Acanthaceen; (IV.) W. Zopf. Untersuchungen über die durch parasitische Pilze hervorgerufenen Krankheiten der Flechten (Fortsetzung); (V.) C. Grévy. Die geographische Verbreitung der jetzt lebenden Perissodactyla Lamnungia und Artiodactyla non ruminantia.

Contents of Volume 71: (I.) A. v. Braunmühl. Beiträge zur Geschichte der Trigonometrie; (II.) A. v. Braunmühl. Nassir Eddin Tüsi und Regiomontan; (III.) W. M. Kutta. Zur Geschichte der Geometrie mit constanter Zirkelöffnung; (IV.) L. Satke. Ueber den Zusammenhang der Temperatur aufeinander folgender Monate und Jahreszeiten; (V.) F. Schilling. Geometrisch-analytische Theorie der symmetrischen *S*-Functionen mit einem einfachen Nebenpunkt; (VI.) E. Schröder. Ueber zwei Definitionen der Endlichkeit und H. Cantor'sche Sätze; (VII.) E. Schröder. Die selbständige Definition der Mächtigkeiten 0, 1, 2, 3 und die explizite Gleichzahligkeitsbedingung; (VIII.) A. Löwy. Ueber bilineare Formen mit konjugirt imaginären Variablen; (IX.) E. Hammer. Vergleichung einiger

Abbildungen eines kleinen Stücks der ellipsoidischen Erdoberfläche (Karte von S.-W.-Deutschland). μ.

MONOGRAPH SUPPLEMENTS OF THE PSYCHOLOGICAL REVIEW:

Vol. II., No. 4, Animal Intelligence. An Experimental Study of the Associative Processes in Animals. By *Edward L. Thorndike, A. M.*, University Fellow in Psychology, Columbia University. The Macmillan Co., New York and London. 1898. Pages, 109. Price, \$1.00.

Vol. II., No. 5, The Emotion of Joy. By *George Van Ness Dearborn, A. M., M. D.*, Sometime Assistant in Philosophy in Harvard University. The Macmillan Company, New York and London. 1899. Pages, 70. Price, 75 cents.

These two brochures are the latest additions to the series of "Monograph Supplements" published by the *Psychological Review*. The first is an experimental study of the associative processes in the minds of animals, and according to the author's claim "is the beginning of an exact estimate of just what associations, 'simple and compound, an animal can form, how quickly he forms them, and how long he retains them. It has described the method of formation, and, on the condition that our subjects were representative, has rejected reason, comparison or inference, perception of similarity, and imitation. It has denied the existence in animal consciousness of any important stock of free ideas or impulses, and so has denied that animal association is homologous with the association of human psychology."

The second monograph was submitted in partial fulfilment of the requirements for a degree of doctor of philosophy in Columbia University. It seeks "to outline 'a description of the Emotion of Joy in both its aspects, psychical and physical; 'to set forth what the emotion 'feels like,' and to point out the chief concomitant 'bodily movements, strains and postures, and to explain, as far as may be, by 'what biological principles these are what they are seen to be.'" μ.

PSYCHOLOGISCHE UNTERSUCHUNGEN ÜBER DAS LESEN. Auf Experimenteller Grundlage. By *Benno Erdmann* and *Raymond Dodge*. Halle a. S.: Max Niemeyer. 1898. Pages, viii, 360. Price, 12 M.

The present exhaustive psychological study of reading on experimental bases is the result of the collaboration of a young American investigator, Dr. Raymond Dodge, and his teacher, Prof. Benno Erdmann, formerly of Halle and now of Bonn. It is the outcome of experimental researches conducted in 1894-1895, in Halle, by Professor Erdmann, who then gave utterance to the desire of having a special apparatus devised for the investigation in question. This want was supplied by Dr. Dodge, by whom the succeeding experiments were carried out with great mechanical skill. In the broad compass of 360 pages the authors review all the previous investigations on the subject, and then pursue their own experiments